

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Toshitada NOGUCHI et al. : **Attn: BOX PCT**
Serial No. NEW : Attorney Docket No. 2004-1003A
Filed June 25, 2004 :
PROCESS FOR PRODUCING
2'-DEOXYGUANOSINE :
[Corresponding to PCT/JP02/13354
Filed December 20, 2002] : THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEE FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975.

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☐ each U.S. Patent and U.S. Patent application publication (*for U.S. National applications filed after June 30, 2003 and International applications that have entered U.S. National Stage after June 30, 2003*),
- ☒ each reference previously cited in the international application PCT/JP02/13354; and/or
- ☐ each reference previously cited in prior parent application Serial No. _____.

- 1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, **or**

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

- 1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, **or**

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign

application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
 - b. ☐ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☒ the concise explanation contained in the specification of the present application at pages 2-5,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☒ A foreign patent office search report (in Japanese) citing one or more of the references is enclosed.

Respectfully submitted,

Toshitada NOGUCHI et al.

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June 25, 2004

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: June 25, 2004

ATTY DOCKET NO.
2004-1003ASERIAL NO.
NEW 10/500226APPLICANT
Toshitada NOGUCHI et al.FILING DATE
June 25, 2004

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,197,552	3/2001	Yokozeki et al.			
	AB	6,017,736	1/2000	Mikami et al.			
	AC						
	AD						
	AE						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AF	2001-46097	2/2001	Japan			
	AG	11-137289	5/1999	Japan			
	AH	391592	10/1990	Europe			
	AI	91/04322	4/1991	WO			
	AJ	1 179 598	2/2002	Europe			
	AK	1 138 775	10/2001	Europe			

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AL	M. Muller et al., "Addition of deoxyribose to guanine and modified DNA based by Lactobacillus helveticus trans-N-deoxyribosylase", Chem. Res. Toxicol, 9(7), p. 1140-1144, Oct.-Nov. 1996.
	AM	Patent Abstract of JP 11-137290, published May 25, 1999.
	AN	Patent Abstract of JP 2001-046097, published February 20, 2001.
	AO	Kiyoshi Okuyama et al., "Molecular Cloning and Expression of the Nucleoside Deoxyribosyltransferase-II Gene from Lactobacillus helveticus", Biosci. Biotechnol. Biochem., 64(10), pages 2243-2245, 2000.
	AP	Kiyoshi Okuyama et al., "Enzymatic Synthesis of 2'-Deoxyguanosine with Nucleoside Deoxyribosyltransferase-II", Biosci. Biotechnol. Biochem., 67(5), pages 989-995, 2003.

EXAMINER

DATE CONSIDERED